

ABSTRACT OF THE DISCLOSURE

An imaging system for creating a three dimensional image of an object.

The imaging system includes a housing and three sets of light sources mounted to
5 the housing. The light sources are selectively illuminated for projecting light on the
object. A camera is spaced from the housing for capturing projected light reflecting
from the object. A lens and a diffuser are mounted to the housing and are spaced
from the light sources for focusing and blurring the projected light to define an
image projected upon the object. A controller is connected to the light sources for
sequentially illuminating the light sources to produce at least three different images
10 on the object. The controller is also connected to the camera for controlling the
camera to capture the different images for creating the three dimensional image of
the object.